

DRAFT ADEM
MONTHLY STATISTICAL INVENTORY RECONCILIATION (SIR) REPORT
FOR THE PERIOD FROM ____/____/____ TO ____/____/____

Questions on how to complete this form should be directed to the Groundwater Branch, UST Compliance Unit at (334) 270-5655

Facility Name:	Owner:
Address:	Address:
City, County, Zip:	City, State, Zip:
Facility I.D. #:	Phone #:
SIR Vendor:	SIR Vendor Phone #:
SIR Vendor Contact:	SIR Version:

Instructions

1. When required by the **Reporting and Recordkeeping Requirements** section below, submit a completed copy of this form to: Groundwater Branch, PO Box 301463 Montgomery, AL 36130-1463, or fax to: (334) 270-5631, or email to: USTcompliance@adem.alabama.gov.
2. This form allows you to record up to 6 ADEM Unique Tank Numbers, assuming that the Facility ID Number remains the same.
3. The SIR method used must be approved by ADEM. Visit the NWGLDE website at www.nwglde.org to view a list of release/leak detection equipment/methods that ADEM approves for use in Alabama. Each SIR method listing includes the third-party certified leak rate* and threshold*.
4. If, for any reason, the test is neither "pass" nor "fail", the "inconclusive" column must be checked under the "SIR Monthly Results" section below.
5. For "Leak Threshold", "Minimum Detectable Leak Rate", and "Estimated Leak Rate", values must be in gallons per hour (gph).
6. Keep a record copy of these results until the next test is conducted.

SIR Monthly Results

Tank			This Monthly Period							Last Monthly Period		
ADEM Unique Tank #	Tank Contents	Tank Capacity (gallons)	No. Days of Inventory Data	Minimum Detectable Leak Rate (MDL) (1)	Leak Threshold (LT) (2)	Estimated Leak Rate (ELR) (3)	P a s s (4)	F a i l (5)	I n c o n (6)	P a s s (4)	F a i l (5)	I n c o n (6)

- (1) The Minimum Detectable Leak Rate (MDL) is the smallest leak rate the SIR vendor can determine which meets the required minimum probability of detection of 95% using monthly inventory data provided to the SIR vendor.
- (2) The Leak Threshold (LT) is one-half the Minimum Detectable Leak Rate (MDL) and is **NOT** the third-party certified leak threshold*.
- (3) The Estimated Leak Rate (ELR) is the amount the tank appears to be losing that is calculated by the SIR vendor using monthly inventory data provided to the SIR vendor.
- (4) A "pass" occurs when the ELR is less than the LT **and** the MDL is less than or equal to the third-party certified leak rate*.
- (5) An "inconclusive" occurs when the MDL is greater than the third-party certified leak rate*.
- (6) A "fail" occurs when the ELR is greater than or equal to the LT **and** the MDL is less than or equal to the third-party certified leak rate*.

Reporting and Recordkeeping Requirements

1. If any monthly SIR Vendor report indicates a "fail" or "inconclusive" for any tank system, you are required to:
 - (a) Perform an investigation of all tank systems that SIR Vendor indicates a "fail" or "inconclusive" within 7 days after receipt of SIR Vendor report.
2. If above investigation indicates that a suspected release caused the tank system(s) "fail" or "inconclusive" report, you are also required to:
 - (a) Report a suspected release to ADEM at 334/270-5655 within 24 hours after completion of investigation;
 - (b) Perform a tightness test on tank system(s) with a suspected release within 7 days after receipt of SIR Vendor report;
 - (c) Submit system tightness test results, results of investigation and completed ADEM Monthly SIR Report form to ADEM within 10 days after receipt of SIR Vendor report.
3. If above investigation indicates that factors other than a suspected release caused the tank system(s) "fail" or "inconclusive" report, you are only required to:
 - (a) Submit results of investigation and completed ADEM Monthly SIR Report form to ADEM within 10 days after receipt of SIR Vendor report.
4. If above investigation indicates that factors other than a suspected release caused the tank system(s) "fail" or "inconclusive" report, and a second consecutive monthly SIR Vendor report indicates that the same tank system did not "pass" ("fail" or "inconclusive"), you are required to:
 - (a) Report a suspected release to ADEM at 334/270-5655 within 24 hours of receipt of the second SIR Vendor report;
 - (b) Perform a tightness test on the tank system(s), where SIR Vendor report indicated the same tank system(s) did not "pass", within 7 days after receipt of the second SIR Vendor report;
 - (c) Submit system tightness test results and completed ADEM Monthly SIR Report form to ADEM within 10 days after receipt of the second SIR Vendor report that indicated the same tank system(s) did not "pass".
5. A record copy of the Leak Threshold (LT), Minimum Detectable Leak Rate (MDL), and Estimated Leak Rate (ELR) must be kept on file for each tank until the next SIR monthly test is performed. If they are not on record, the tank system(s) is not in compliance with leak detection requirements for that month.

Certification

I certify under penalty of law that I am familiar with the information submitted on this form and that based on my inquiry of those individuals immediately responsible for obtaining the information I believe that the information is true, accurate, and complete.

Signature of owner/operator: _____ Date: _____